

WSDOT Materials Laboratory Library

Selected New Acquisitions – June 2012

HARDCOPY BOOKS, REPORTS, MEDIA

Interdisciplinary Interest

Engineering Economic Analysis Practices for Highway Investment. Transportation Research Board, 2012. NCHRP Synthesis no. 424.
625.7 N2131s 2012 no424
http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_syn_424.pdf

Estimating Life Expectancies of Highway Assets. Transportation Research Board, 2012. NCHRP Report 713.
625.7 N2131r 2012 v1, v2
Volume 1: http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_rpt_713v1.pdf
Volume 2: http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_rpt_713v2.pdf

Geotechnical Engineering, Engineering Geology

Cost-Effective and Sustainable Road Slope Stabilization and Erosion Control. Transportation Research Board, 2012. NCHRP Synthesis no. 430.
625.7 N2131s 2012 no430
http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_syn_430.pdf

Full-Scale Testing and Foundation Design: Honoring Bengt H. Fellenius. American Society of Civil Engineers, 2012. Geotechnical Special Publication no. 227.
624.15136 FULL-SC 2012

Geotechnical Information Practices in Design-Build Projects. Transportation Research Board, 2012. NCHRP Synthesis no. 429.
625.7 N2131s 2012 no429
http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_syn_429.pdf

Scour at Bridge Foundations on Rock. Transportation Research Board, 2012. NCHRP Report no. 717.
625.7 N2131r 2012 no717
http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_rpt_717.pdf

Pavements

Calibration of Rutting Models for Structural and Mix Design. Transportation Research Board, 2012. NCHRP Report no. 719.
625.7 N2131r 2012 no719
http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_rpt_719.pdf

ELECTRONIC BOOKS, REPORTS, MANUALS & NEWSLETTERS

Interdisciplinary Interest

Focus: Accelerating Infrastructure Innovations [Newsletter], June 2012. Federal Highway Administration.
<http://www.fhwa.dot.gov/publications/focus/12jun/12jun00.cfm>

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A Framework for Statewide Roadway Asset Management. Michigan Dept. of Transportation, 2012.
http://www.michigan.gov/documents/mdot/MDOT_Research_Report_RC1576_386741_7.pdf

Ground Vibration from Road Construction. New Zealand Transport Agency, 2012.
<http://www.nzta.govt.nz/resources/research/reports/485/index.html>

Information for Authors: A Guide for Preparing and Submitting Manuscripts for Presentation at the TRB Annual Meeting and for Publications in the TRB's Journal. Transportation Research Board, 2012.
<http://onlinepubs.trb.org/onlinepubs/AM/InfoForAuthors.pdf>

WSDOT Engineering & Administrative Publications

Construction Manual (*revised* July 2012). M 41-01.
<http://www.wsdot.wa.gov/Publications/Manuals/M41-01.htm>

Environmental Procedures Manual (*revised* June 2012). M 31-11.
<http://www.wsdot.wa.gov/Publications/Manuals/M31-11.htm>

Local Agency Guidelines (LAG) Manual (*revised* June 2012). M 36-63.
<http://www.wsdot.wa.gov/Publications/Manuals/M36-63.htm>

WSDOT Research Reports

Evaluation of Tyregrip® High-Friction Surfacing. Washington State Dept. of Transportation, 2012. WA-RD Report no. 788.1.
<http://www.wsdot.wa.gov/Research/Reports/700/788.1.htm>

Initial Investigation of Reinforced Concrete Filled Tubes for Use in Bridge Foundations. Washington State Dept. of Transportation, 2012. WA-RD Report no. 776.1.
<http://www.wsdot.wa.gov/research/reports/fullreports/776.1.pdf>

Performance of Concrete Pavements with Longitudinal Tining, Transverse Tining, and Carpet Drag Finish. Washington State Dept. of Transportation, 2012. WA-RD Report no. 637.2.
<http://www.wsdot.wa.gov/Research/Reports/600/637.2.htm>

Geotechnical Engineering, Engineering Geology

Bridge Design Guidelines for Earthquakes. Austroads, 2012.
<https://www.onlinepublications.austroads.com.au/items/AP-T200-12> (Log in or Register to Download free PDF)

Development of Variable LRFD Factors for Deep Foundation Design Due to Site Variability. Florida Dept. of Transportation, 2012.
http://www.dot.state.fl.us/research-center/Completed_Proj/Summary_GT/FDOT_BDK75_977-23_rpt.pdf

Hydraulic Design of Highway Culverts, 3rd ed. Federal Highway Administration, 2012. Hydraulic Design Series no. 5 (HDS 5). FHWA-HIF-12-026.
<http://www.fhwa.dot.gov/engineering/hydraulics/pubs/12026/hif12026.pdf>

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Practices and Procedures for Site-Specific Evaluations of Earthquake Ground Motions.

Transportation Research Board, 2012. NCHRP Synthesis no. 428.

http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_syn_428.pdf

Recommendations for Design, Construction, and Maintenance of Bridge Approach Slabs. Texas Dept. of Transportation, 2012.

<http://tti.tamu.edu/documents/0-6022-2.pdf>

Route 22 over Liberty Avenue and Conrail Hillside Township, Union County, Monitoring of Tensar MSE Walls. New Jersey Dept. of Transportation, 2011.

<http://www.nj.gov/transportation/refdata/research/reports/FHWA-NJ-2012-002.pdf>

Seismic Design Considerations Volume I: Technical Approaches & Results; Volume II: Appendices II – VIII. New Jersey Dept. of Transportation, 2012.

<http://www.nj.gov/transportation/refdata/research/reports/FHWA-NJ-2010-006.pdf>

Validation of Field Test Methods for Use of Tire Bales. Texas Dept. of Transportation, 2012.

http://www.utexas.edu/research/ctr/pdf_reports/5_5517_01_1.pdf

Pavements

A 4-Year Pavement Management Plan (FY 2012-2015). Texas Dept. of Transportation, 2012.

http://www.utexas.edu/research/ctr/pdf_reports/5_9035_01_P7.pdf

Alternative Methods of Flexible Base Compaction Acceptance. Texas Dept. of Transportation, 2012.

<http://tti.tamu.edu/documents/0-6587-1.pdf>

Developing Standards and Specifications for Full Depth Pavement Reclamation. Pennsylvania Dept. of Transportation, 2012.

ftp://ftp.dot.state.pa.us/public/pdf/BPR_PDF_FILES/Documents/Research/Complete%20Projects/Extending%20Pavement%20Life/FDR%20Final%20Report.pdf

Improving the Properties of Reclaimed Asphalt Pavement for Roadway Base Applications. Florida Dept. of Transportation, 2012.

http://www.dot.state.fl.us/research-center/Completed_Proj/Summary_SMO/FDOT_BDK81_977-02_rpt.pdf

Measurement and Analysis of Dynamic Wheel Loads, Austroads, 2012.

<https://www.onlinepublications.austroads.com.au/items/AP-R406-12> (Log in or register to download free PDF)

Monitoring and Modeling of Pavement Response and Performance, Task B: New York. Ohio Dept. of Transportation, 2012.

http://www.dot.state.oh.us/Divisions/Planning/SPR/Research/reportsandplans/_layouts/listform.aspx?PageType=4&ListId={7914B63D-DF9D-4762-92FF-4674BE7DD96A}&ID=80&ContentTypeID=0x0100A87157BC16FE6843984E26CC694CAAAB

Simplified Techniques for Evaluation and Interpretation of Pavement Deflections for Network-Level Analysis: Guide for Assessment of Pavement Structure Performance for PMS Applications. Federal Highway Administration, 2012. FHWA-HRT-12-025.

<http://www.fhwa.dot.gov/publications/research/infrastructure/pavements/ltpp/12025/12025.pdf>

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Superiority & Constructability of Fibrous Additives for Bridge Deck Overlays. Illinois Dept. of Transportation, 2012.

<http://www.ict.illinois.edu/publications/report%20files/FHWA-ICT-12-003.pdf>

User's Guide for TxCRCP-ME Design Software, Volumes I and II. Texas Dept. of Transportation, 2012.

<http://www.depts.ttu.edu/techmrtweb/Reports/Products/0-5832-P3.pdf>

Materials, Testing, Inspection

Effects of Bending and Heat on the Ductility and Fracture Toughness of Flange Plate. Texas Dept. of Transportation, 2012.

<http://tti.tamu.edu/documents/0-4624-2.pdf>

Evaluation of Canadian Unconfined Aggregate Freeze-Thaw Tests for Identifying Nondurable Aggregates. Kansas Dept. of Transportation, 2012.

<http://idmweb.ksdot.org/PublicLib/publicDoc.asp?ID=003819709>

Evaluation of State Quality Assurance Program Effectiveness. Federal Highway Administration, 2012. FHWA-HRT-12-027.

<http://www.fhwa.dot.gov/publications/research/infrastructure/12027/12027.pdf>

Feasibility of Digital Imaging to Characterize Earth Materials. Michigan Dept. of Transportation, 2012.

http://www.michigan.gov/mdot/0,4616,7-151-9622_11045_24249-280828--,00.html

Short-Term Performance of Modified Stone Matrix Asphalt (SMA) Produced with Warm Mix Additives. Illinois Center for Transportation, 2012.

<http://www.ict.illinois.edu/publications/report%20files/ICT-12-001.pdf>